

8-9-1969

# Clemson Commencement Program, August 1969

Clemson University

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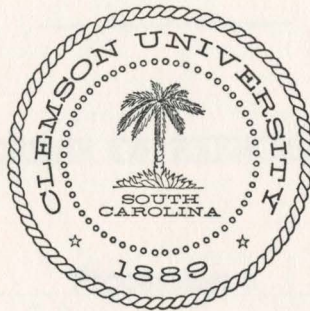
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# CLEMSON UNIVERSITY

Graduating Exercises

August 9, 1969

Clemson, South Carolina

# Graduating Exercises

Saturday, August 9, 1969

11:00 a.m. — Littlejohn Coliseum

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## ORDER OF EXERCISES

### Processional

(Audience will please stand and remain standing for the invocation)

### Invocation

The Reverend H. Robert Reynolds  
Clemson United Methodist Church

### Conferring of Degrees and Delivery of Diplomas

President Robert C. Edwards

### Benediction

Mr. Joseph E. Jackson, Organist



# CANDIDATES FOR ASSOCIATE AND BACHELORS' DEGREES

## COLLEGE OF AGRICULTURE AND BIOLOGICAL SCIENCES

### BACHELOR OF SCIENCE DEGREE

#### Agricultural Economics

Curtis Cavney Kimbrell III ..... Sumter

#### Agronomy

Kenneth Franklin Hines ..... Greenville

#### Animal Science

Robert Allen Brooks, Jr. .... Landrum	Joel Kenneth Richardson ..... Clemson
John Cecil Pardue, Jr. .... Johnston	William Henry Wise, Jr. .... Rock Hill

#### Biology

Furman Henry Alewine ..... Taylors	James Evans Mayer ..... Little Mountain
** Herbert Wayne Beam ..... Chester	Ronald Brian Ritchie ..... Kennesaw, Ga.
Gretchen Howell Belser ..... Columbia	Julian Stanley Schraibman ..... Charleston
Heyward Belser Douglass ..... Columbia	Everett Albert Taylor ..... Sumter
George Alston Gore ..... Columbia	Stephen Charles Thomas ..... Honea Path
David Lee Hilsman ..... Atlanta, Ga.	

#### Horticulture

Wilson Counts Childers, Jr. .... Great Falls	Donald Lee Skelton ..... Clemson
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## SCHOOL OF ARCHITECTURE

### BACHELOR OF ARCHITECTURE DEGREE

Gregory Paul Benz --- Jackson Heights, N. Y.	Orville Van Player III ..... Sumter
William Hunter O'Cain --- Hendersonville, N. C.	

### BACHELOR OF SCIENCE DEGREE

#### Building Construction

Dan Gerald Askins, Jr. .... Hartsville	Thomas Marion Fitts ..... Gaston
Jack Warren Burgess ..... Cleveland	William Silas Turbeville, Jr. .... Columbia
David William Cecil II ..... Spartanburg	

## SCHOOL OF EDUCATION

### BACHELOR OF ARTS DEGREE

#### Elementary Education

* Diane Porter Bishop ..... Greenville	Cheryl Galgoci Miller ..... Niles, Ohio
* Christine Jackson Ferguson ..... Greenville	* Kathy Brock Welborn ..... Anderson
Karen Bernadette Lutz ..... Pittsburgh, Pa.	Cheryl Simpson Whitfield ..... Clemson
Christine Anne Mercier ..... Summerville	

#### Secondary Education

Mary Jane Braswell Albea ..... Rockmart, Ga.	Laura Anne Hayes ..... Anderson
William Perry Beckham III ..... Camden	* Betty Gleaton Moore ..... Anderson
* Judith Roberts Clarke ..... Greenville	Vivian Louise Nichols ..... Tamassee
Rebecca Ann Fortner ..... Anderson	Elizabeth Marie Palmer ..... Townville

### BACHELOR OF SCIENCE DEGREE

#### Agricultural Education

(Agricultural Education is jointly administered by the College of  
Agriculture and Biological Sciences and the School of Education.)

Alfred Randolph Clarke ..... McColl	Martin Howard Hutto ..... Swansea
Larry Eugene Greer ..... Anderson	

### Industrial Education

Raymond Sylvester Fedele --	Somerville, N. J.	Louis Paul Stith, Jr. -----	Sullivans Island
Daniel Lawrence Fry -----	Kingstree	James Harold Stoner, Jr. -----	Enoree
Cleveland Adger Huey -----	Anderson	Dennis Holland Walsh -----	Savannah, Ga.
William Jackson Singletary -----	Lake City		

### Recreation and Park Administration

Nancy Sharon Alley -----	Columbia	Nicholas Fletcher III -----	Charlotte, N. C.
Robert Earle Ambrose -----	Omaha, Nebr.	Thomas Kirkpatrick Gaither, Jr. ----	Fort Mill
Alec Darwin Blalock -----	Camden	* Alan Berry Hiatt -----	Greer
Thomas Edward Bulwith -----	Bayonne, N. J.	* Angelina Spearman Howard -----	Clemson
James Cecil Catoe, Jr. -----	Kershaw	Virgil Finch Linder, Jr. -----	Bishopville
Joe Barry Cockfield -----	Abbeville	John Edward Mann -----	Rock Hill
Richard Hunter Crouch -----	Saluda	Hinton Arnold Price, Jr. -----	Greenville
Stanley Bruce Edens -----	Moncks Corner	Simeon Pinckney Wright, Jr. -----	Sumter

### Science Teaching

Thomas Murray Arant -----	Fort Motte	Andrew Patrick Inabinet -----	Orangeburg
Lawrence Joseph Delaney, Jr. -----	Colchester, Conn.		

## COLLEGE OF ENGINEERING

### BACHELOR OF SCIENCE DEGREE

#### Agricultural Engineering

(Agricultural Engineering is jointly administered by the College of Agriculture and Biological Sciences and the College of Engineering.)

John Wayne Mishoe ----- Loris

#### Ceramic Engineering

James Franklin Ramsay -----	Simpsonville	Frankie Darrell Wilson -----	Anderson
* Thomas Earl Smith -----	Anderson		

#### Chemical Engineering

William Jackson Blanks, Jr. -----	Rock Hill	John Eugene McAliley -----	Rock Hill
Stephen James Hayes -----	Moncks Corner	Samuel Eugene Smith -----	Rock Hill

#### Civil Engineering

William Noah Burley, Jr. -----	Walhalla	William Nicholas Kellahan, Jr. ----	Kingstree
Michael Wayne Foster -----	West Union	Robert McFaddin Marshall -----	Sumter
* Richard Marvin Garris -----	Marion	Randy Gerald Farris -----	Gaffney
George Fouad Kammoun ---	Tripoli, Lebanon		

#### Electrical Engineering

* Fred Marshall Alexander, Jr. ----	Abbeville	William Calhoun Locke, Jr. -----	Rock Hill
Richard Ernest Frank -----	Panama, Panama	George Peter Lynch -----	Arlington, Va.
Charles Roy Gregory -----	Waterloo	John Fike Mabry, Jr. -----	Fairforest
* James Richard Kirby -----	Greenville	Joseph Horace Simpson III -----	Whitmire

#### Industrial Engineering

Mir Zulfiqar Rahim -----	Lahore, Pakistan	Rollin John Stickle II -----	Columbia
Ernest Little Spears -----	Union		

#### Mechanical Engineering

Richard James Belken -----		Milton Andrew Gatlin -----	Newberry
-----	Fort Walton Beach, Fla.	Peter Henry Johnson -----	Glen Head, N. Y.
Youssef Fouad Boutros ---	El-Koura, Lebanon	Robert Joseph Stanzione -----	Hartsville
James King Brinkley -----	Columbia		



## SCHOOL OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE

### BACHELOR OF ARTS DEGREE

#### Arts and Sciences

Carl Montgomery Allen ----- Charleston  
Robert William Ayers ----- Orangeburg  
Glenn Gray Burdette ----- Greenville  
Ray O'Brian Carter ----- Columbia  
Charles Michael Craven ----- Greenville  
William Ronald Hinson ----- Charlotte, N. C.  
Terry Louis Lee ----- Greensboro, N. C.  
Bruce Temple Linthicum ----- Memphis, Tenn.

Gregory Allen McClure ----- Charlotte, N. C.  
Charles Ronald Mauney ----- Greer  
Joseph Edward Netzel, Jr. ----- Concord, N. H.  
Richard Samuel Proctor, Jr. ----- Sumter  
William Ted Robertson ----- Spartanburg  
Walter Preston Thompson ----- Spartanburg  
James Andrew Vaughan ----- Greenville  
Prince Otto Wilson, Jr. ----- Greenville

### BACHELOR OF SCIENCE DEGREE

#### Industrial Management

William Leroy Abercrombie, Jr. ----- Easley  
Benjamin Edward Abernathy ----- Connolly Springs, N. C.  
Bruce Burgess Albea ----- Rockmart, Ga.  
Paul Franklin Baker ----- Piedmont  
Stephen Lee Barbery ----- Simpsonville  
Gregg Alcon Belknap ----- Charleston  
Edmond Brown, Jr. ----- Elliott  
James Abraham Bruce, Jr. ----- Lake View  
Terry Lee Cameron ----- Ninety Six  
Donald Brian Cashin ----- Orangeburg  
George Rembert Crowe ----- Anchorage, Alaska  
Lawrence Bruce Ellefson ----- Spartanburg  
Ronald James Hathazy ----- Pittsburgh, Pa.  
George David Howell ----- Asheville, N. C.  
Richard Wooten Johnson ----- Plains, Ga.

\* James Michael Klosky ----- Anderson  
Richard Linwood Lavender ----- Gaffney  
Michael Bryan McKeown ----- Great Falls  
Clyde Michael Moore ----- Greenville  
Craig Russell Morrison ----- Fairhaven, N. J.  
William Cone Peters ----- Charleston  
Steven McKell Phillips ----- North Augusta  
Perry Howard Reynolds ----- Anniston, Ala.  
Wayne Jackson Roberson ----- Asheville, N. C.  
William Henry Scoggins ----- Greenville  
John Henry Segars ----- Darlington  
Dennis Gerald Shealy ----- Greenville  
Jimmy Dyrán Speer ----- Anderson  
\* Robert Marion Thomason ----- Laurens  
Charles Bergen Wilson ----- Camden

#### Textile Chemistry

Thomas Anthony Tantillo ----- North Augusta

#### Textiles

Pascal Servene Brock ----- Belton

## COLLEGE OF LIBERAL ARTS

### BACHELOR OF ARTS DEGREE

Nancy Diana Ball ----- Simpsonville  
\*\* Awtry Stephen Dawes ----- Greenville  
William Brunson DePass, Jr. ----- Rock Hill  
Charles William Gibson ----- Newton, Mass.  
Robert Lee Griffin III ----- Norfolk, Va.  
Kathryn Scott Hanna ----- Greenwood  
Cheryl Denise Jensen ----- Myrtle Beach  
Pamela Joy King ----- Simpsonville  
Mary Delia Mackay Lawton ----- Orangeburg

\*\* Nancy Evelyn McGill ----- Anderson  
George Glenn Matthews, Jr. ----- Columbia  
\* John McKey Milling ----- Darlington  
Hugh Deaver Putnam, Jr. ----- Cherryville, N. C.  
\*\* Sara Golden Skardon ----- Clemson  
Paul Jeffrey Steinfeldt ----- Rochester, N. Y.  
John Marshall Swails ----- Kingstree  
Richard Hill Woodward ----- Knoxville, Tenn.

## SCHOOL OF NURSING

### ASSOCIATE IN ARTS DEGREE

#### Nursing

\* Linda Faye Willis ----- Greenwood

## COLLEGE OF PHYSICAL AND MATHEMATICAL SCIENCES

### BACHELOR OF SCIENCE DEGREE

#### Chemistry

Donald Milton Boggs ----- Clemson William Earle Glazener ----- Greenville  
James Michael Davis ----- Greer Lester Yerby Pilcher ----- Columbia

#### Geology

\* Thomas McLeod Goforth ----- Rock Hill

#### Mathematics

Marilyn Jean Jones ----- Rocky Mount, N. C. Jeffrey Alan O'Cain ----- Columbia  
John Augustus Neuffer ----- Clayton, N. Y. Jeff O'Donnell Pritchard ----- Sumter  
Walter Lawrence Northrup ----- Wilmington, Del. William Henry Turner ----- Columbia

#### Physics

Edward Licus Prater ----- Westminster

#### Pre-Medicine

Richard Leon Beauvais, Jr. ----- Cranston, R. I. William Rhodes Holland ----- Greenville  
Arthur Thomas Craig ----- Greer Peter Wischan Moxon ----- Columbia

\* With honor

\*\* With high honor



# CANDIDATES FOR MASTERS' DEGREES

## COLLEGE OF AGRICULTURE AND BIOLOGICAL SCIENCES

### MASTER OF SCIENCE DEGREE

#### Agricultural Economics

James Carl Jordan ----- Aiken Gary Frank Young ----- Smithville, Tenn.  
Tommy Cleveland Meadows -- Franklin, N. C.

#### Animal Science

Ralph Duane Roland ----- Weiser, Idaho

#### Forestry

Ansel Eldon Miller ----- Picayune, Miss.

#### Plant Pathology

Sharon Ursula Brown Miller -- Travelers Rest

#### Zoology

James Joseph Colcolough, Jr. --- Mt. Pleasant Jay Dee Hair ----- Newark, Del.

## SCHOOL OF EDUCATION

### MASTER OF EDUCATION DEGREE

Katherine Gardner Adkins -----	Ninety Six	Ruth Dunlap Jackson -----	Greenville
Judith Belk Askins -----	Hartsville	Robert Loie Jones -----	Pelzer
Don Raye Beck -----	Anderson	Linda Tune Leatherman ---	Morganton, N. C.
Terry Leigh Brogdon -----	Mt. Pleasant	Helen Chamblee Lee -----	Anderson
Elaine Hicks Chambers -----	Liberty	Frances Holtzclaw Lockaby --	Travelers Rest
Rebecca Meredith Chamblee -----	Anderson	DaCosta Muckenfuss, Jr. -----	Summerville
Carole Bryant Coker -----	Greenville	Daneille Touchberry Muckenfuss --	Greenville
Ella Perrin Cox -----	Abbeville	Louise Klugh Rankin -----	Anderson
Mary Bass Crum -----	Denmark	Earle Franklin Rochester -----	Walhalla
Anne Cuba Fletcher -----	Marietta, Ga.	Martha Messman Stearns -----	Atlanta, Ga.
Suzanne Kaye Ginther --	North Canton, Ohio	Faye Robertson Walls -----	Slater

### MASTER OF INDUSTRIAL EDUCATION DEGREE

Ephriam George Cope, Jr. ----- Newberry Ernst Allen Neumeister ----- Charleston  
Charles Edward Dumas ----- Forsyth, Ga.

## COLLEGE OF ENGINEERING

### MASTER OF SCIENCE DEGREE

#### Ceramic Engineering

Robert Brown Clem ----- Huntsville, Ala.

#### Chemical Engineering

Moa-Tseng William Chien ----- Taipei, Taiwan James Thomas Haney ----- Lyman

#### Civil Engineering

Philip Howard Clarkson ----- Cowpens Neil Arden Smoak ----- Orangeburg  
James William Page ----- Lake View



### **Environmental Systems Engineering**

James Malcolm Campbell ----- Bucyrus, Ohio  
David Mitchell Cline ----- Wytheville, Va.

Lawrence Charles Tropea, Jr. -- Buffalo, N. Y.  
Charles Kein Yee ----- Birmingham Ala.

### **Water Resources Engineering**

Joseph Richard Briggs ----- College Park, Ga.

## **SCHOOL OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE**

### **MASTER OF SCIENCE DEGREE**

#### **Industrial Management**

Joseph Larry Avant ----- Charleston      Raymond Wayne Davies -- Saddle Brook, N. J..

#### **Textile Chemistry**

Scott Bruce Speares, Jr. ----- Anderson

#### **Textile Science**

Johnny Mack Butler ----- Rock Hill

## **COLLEGE OF LIBERAL ARTS**

### **MASTER OF ARTS DEGREE**

#### **English**

Kenneth Charles Burrows  
----- Nottingham, England

Laurens Hunter Irby ----- Woodruff  
Frank Walter Pearce, Jr. ----- Cheraw

#### **History**

Noel David Evans ----- Greenville

Elizabeth Merritt Haw ----- Thibodaux, La.

## **COLLEGE OF PHYSICAL AND MATHEMATICAL SCIENCES**

### **MASTER OF SCIENCE DEGREE**

#### **Mathematics**

Gordon Lee Bailes, Jr. ----- Greenwood  
Cheryl Elaine Henderson ----- Bogalusa, La.

Amelia Nichols Richardson ----- Clinton

#### **Physics**

Charles Lee Watlington ----- Jackson, Tenn.



# CANDIDATES FOR DOCTORS' DEGREES

## COLLEGE OF AGRICULTURE AND BIOLOGICAL SCIENCES

### DOCTOR OF PHILOSOPHY DEGREE

#### Agricultural Economics

Robert Henry Elrod ..... Griffin, Ga.  
B.A., Presbyterian College; M.S., Clemson University  
Dissertation: Development and Use of Updated Input-Output Tables in Economic Forecasting and Planning

#### Entomology

Wesley Wright Gregory, Jr. .... Anderson  
B.S., Wofford College; M.S., Clemson University  
Dissertation: Bioaccumulation of Endrin from Natural Food Sources in the Eastern Bobwhite Quail, *Colinus virginianus virginianus* L.

## COLLEGE OF ENGINEERING

### DOCTOR OF PHILOSOPHY DEGREE

#### Engineering

Asa Orin Bishop, Jr. .... Pocahontas, Va.  
B.S., Virginia Military Institute; M.S., Clemson University  
Dissertation: The Development of an On-Line Real Time Digital Computer Technique for the Analysis of Electroencephalograms (Field of Specialization: Electrical Engineering)

Conor Deane Johnson ..... Orange, Va.  
B.S., Virginia Polytechnic Institute; M.S., Clemson University  
Dissertation: On the Dynamic Stability of Simply-Supported Rectangular Sandwich Plates and Circular Cylindrical Sandwich Panels (Fields of Specialization: Engineering Mechanics)

Billy Howard Kornegay ..... Powhatan, Va.  
B.S., Virginia Military Institute; M.S., Clemson University  
Dissertation: Characteristics and Kinetics of Fixed Film Biological Reactors (Field of Specialization: Environmental Systems Engineering)

## SCHOOL OF INDUSTRIAL MANAGEMENT AND TEXTILE SCIENCE

### DOCTOR OF PHILOSOPHY DEGREE

#### Engineering Management

Edward Romfh Clayton ..... Blacksburg, Va.  
B.S., University of Florida  
Dissertation: Estimating Distributed Lags in the Demand for Money

## COLLEGE OF PHYSICAL AND MATHEMATICAL SCIENCES

### DOCTOR OF PHILOSOPHY DEGREE

#### Chemistry

Ronald Edward Block ..... Gainesville, Fla.  
B.S., College of Charleston; M.S., Clemson University  
Dissertation: Determination of the Microstructure of Copolymers of Vinylidene Chloride and Methacrylonitrile



Nina Griffin Charles ----- Kinston, N. C.  
B.A., Agnes Scott College  
Dissertation: Investigation of the Quasi-Linear Model and its Application to the Bending Vibration  
of Sulfur Dioxide

**Mathematics**

Harry Hammond Suber ----- Jackson  
B.S., M.S., Clemson University  
Dissertation: Integral Manifolds for Perturbed Nonlinear Systems

**Physics**

Barry Leeds Illman ----- Fairfield, Conn.  
B.S., Tennessee Polytechnic Institute; M.S., Clemson University  
Dissertation: The Generally Covariant, Non-Divergent Equations of Motion of a Charged Particle

Donald Eugene Kinkaid ----- Joy, Ill.  
B.S., M.S., Clemson University  
Dissertation: A Numerical Analysis of the Inelastic Scattering of Nucleons from Lithium-Seven